Top 20 Chemicals with Largest TRI On-site and Off-site Disposal or Other Releases, 2002: Chemical Manufacturing (SIC 28)

		On-site Disposal or Other Releases														Total On-site and Off-site Disposal or Other Releases
		On-site Disposal to Class I Underground Injection				Other On-site Disposal or Other Releases								Total On-site Disposal or Other Releases	Total Off-site Disposal or Other Releases	
CAS Number	Chemical	Class I Wells	RCRA Subtitle C Landfills	Other On-site Landfills	Subtotal	Fugitive Air Emissions	Point Source Air Emissions	Surface Water Discharges	Class II-V Wells	Land Treatment	Surface Impoundment	Other Land Disposal	Subtotal			
		Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
--	Nitrate compounds	36,332,877	0	10,505	36,343,382	4,966	102,828	49,909,428	81,005	855,384	30,307	10,375	50,994,292	87,337,674	7,002,011	94,339,685
7664-41-7	Ammonia	21,127,009	228	23,880	21,151,117	9,578,168	44,244,170	1,569,018	7,005	170,107	10,436	84,718	55,663,622	76,814,739	1,298,516	78,113,256
--	Manganese compounds	9,308,255	112,442	16,597,972	26,018,669	103,057	89,603	1,178,628	250	9,631	5,896,581	87,280	7,365,030	33,383,699	7,407,394	40,791,093
67-56-1	Methanol	12,743,016	989	166,973	12,910,978	5,551,351	17,828,210	583,497	117,001	2,205	750	124,265	24,207,280	37,118,258	554,095	37,672,353
75-15-0	Carbon disulfide	5,063	11	2,497	7,571	1,112,923	19,652,086	1,379	0	0	0	0	20,766,389	20,773,960	2,032	20,775,992
74-85-1	Ethylene	0	0	1	1	8,634,983	11,520,965	6	0	0	0	0	20,155,954	20,155,955	31	20,155,986
75-05-8	Acetonitrile	17,735,219	370	2	17,735,591	398,279	226,769	8,987	0	0	3	15	634,054	18,369,645	2,343	18,371,988
463-58-1	Carbonyl sulfide	0	0	0	0	21,654	11,930,287	0	0	0	0	0	11,951,941	11,951,941	0	11,951,941
107-13-1	Acrylonitrile	10,894,952	0	141	10,895,093	195,769	475,729	912	0	0	0	10	672,420	11,567,513	6,640	11,574,153
--	Zinc compounds	275,957	152,713	668,514	1,097,184	42,137	327,603	63,244	6,450	1,396	1,380,896	254,213	2,075,940	3,173,124	7,640,597	10,813,721
7647-01-0	Hydrochloric acid	8,639	2,000	0	10,639	479,403	9,882,980	2,299	0	0	0	18	10,364,701	10,375,340	180,697	10,556,037
50-00-0	Formaldehyde	7,876,270	82	22,150	7,898,502	293,393	737,921	104,144	0	530	75	1,065	1,137,127	9,035,629	283,286	9,318,916
108-88-3	Toluene	213,468	741	6,819	221,028	4,129,963	4,369,112	4,765	0	1	713	1,648	8,506,201	8,727,229	280,065	9,007,294
110-54-3	n-Hexane	62,638	44	13,900	76,582	4,063,510	4,772,816	1,650	0	0	0	5	8,837,981	8,914,563	6,349	8,920,912
7697-37-2	Nitric acid	8,340,821	41	0	8,340,862	148,515	206,218	843	0	321	0	4,023	359,920	8,700,782	69,308	8,770,090
79-06-1	Acrylamide	8,637,429	0	0	8,637,429	3,082	9,089	163	0	0	0	0	12,334	8,649,763	5,921	8,655,684
115-07-1	Propylene	0	14	8	22	4,057,123	4,199,881	4,792	0	0	0	0	8,261,796	8,261,818	0	8,261,818
64-18-6	Formic acid	6,943,647	245	272	6,944,164	96,562	145,755	136,867	0	1,300	0	5	380,489	7,324,653	43,099	7,367,752
--	Chromium compounds	708,610	14,161	1,512,287	2,235,058	3,393	24,453	20,688	0	41	2,516,118	511	2,565,204	4,800,262	1,716,785	6,517,048
75-09-2	Dichloromethane	294,396	69	3,207	297,672	1,923,610	3,056,994	3,444	0	7	0	1,139	4,985,194	5,282,866	156,378	5,439,244

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at **www.epa.gov/tri/tridata/index.htm#pdr.**

On-site Disposal or Other Releases include Underground Injection to Class I Wells (Section 5.4.1), RCRA Subtitle C Landfills (5.5.1A), Other Landfills (5.5.1B), Fugitive or Non-point Air Emissions (5.1), Stack or Point Air Emissions (5.2), Surface Water Discharges (5.3), Class II-V Wells (5.4.2), Land Treatment (5.5.2), Surface Impoundments (5.5.3) and Other Land Disposal (5.5.4). Off-site Disposal or Other Releases include from Section 6.2 Underground Injection (M71), RCRA Subtitle C Landfills (M65), Other Landfills (M64, M72), Storage Only (M10), Solidification/Stabilization - Metals and Metal Category Compounds only (M41 or M40), Wastewater Treatment (excluding POTWs) - Metals and Metal Category Compounds only (M62 or M61), Surface Impoundments (M63), Land Treatment (M73), Other Land Disposal (M79), Other Off-site Management (M90), Transfers to Waste Broker - Disposal (M94, M91), and Unknown (M99) and, from Section 6.1 Transfers to POTWs (metals and metal category compounds only).

Does not include Off-site Disposal or Other Releases transferred to other TRI facilities that reported the amounts as on-site disposal or other releases.

Facilities/forms are included in the manufacturing industry categories (SIC Codes 20-39) if they did not report a SIC code in the other industries. Forms that reported more than one 2-digit SIC code within the range 20 to 39 are assigned to the "multiple codes" category. Facilities/forms are included in the other industry categories if the facility/form has a SIC code in the other industries and no SIC code in 20-39. If the facility reported in any year prior to 1998 and the facility/form has a combination of manufacturing and other industry SIC codes, then the facility/form is included in the manufacturing industry category. If the facility reported for the first time in 1998 or later and the facility/form has a combination of manufacturing and other industry SIC codes, then the facility/form is included in the other industry category. Forms with no 2-digit SIC code are included in the "no codes" category. One facility, Phelps Dodge Miami of Claypool, AZ, that reported under SIC code 33 and SIC code 10 in 2002 and previous years have been included in SIC code 10 for the purpose of this analysis.